

## WELCOME to Our CPA Family!

Dear Bengal Families,

We are honored that you are part of the Coconut Palm K-8 Academy Magnet Program. Coconut Palm K-8 Academy students are exposed to an interactive science-based education and a love for medicine and agriculture. Coconut Palm K-8 Academy students enjoy the best of core educational opportunities in the general education classroom. Our exceptional teaching staff works with magnet teachers daily to develop strong ethics which build students to be excellent communicators, strategic problem solvers, and advocates for agriculture and public health. Fostering student growth in these areas, empowers the student to let his/her inner leader shine!

The magnet program at Coconut Palm K-8 Academy is truly a school-wide initiative. Every educator and faculty member on the campus plays an essential role in the development of your child. We teach students the power of positive and expressive communication. We enable students by encouraging them to question the world around them. We nurture students by facilitating their interpersonal skills. We motivate students by making school an engaging and uplifting environment to learn in. We challenge students as we provide rigorous learning opportunities and guide students to achieve more than they thought possible.

Our magnet program includes an agriculture outdoor land lab, as well as several small research garden centers throughout our school grounds that our students attend during their magnet rotation schedule. Students also get to experience the outdoors by having class in our outdoor classrooms at the teacher's discretion.

Students participate in several real-world experiences through project-based learning and supervised magnet experiences. Our students have a grade level magnet topic that they can explore through individualized projects that the student designs and executes themselves. Utilizing the topics learned in class, students develop and discover new concepts and ideas. These experiences are also designed to help students prepare for a future career in the agriculture and/or medical field.

## K-5 Grade Level Topics

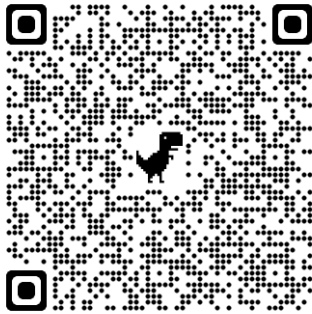

Grade Level	Agriscience Engineering Topics	Medical Biotechnology Topics
Kindergarten	<p><b><i>Food Science &amp; Nutrition:</i></b></p> <p>Identification of fruits and vegetables; Plant parts and functions; Crop production and processing; Storage; Sale and distribution; Food Pyramid; Food preparation; Food sanitation and Safe handling</p>	<p><b><i>Health &amp; Safety:</i></b></p> <p>The five senses; Dental hygiene; My body; Personal care and cleanliness; Manners; Fire Safety/Stranger Danger; Safety helper; Community helpers</p>
1 <sup>st</sup> Grade	<p><b><i>A World of Insects:</i></b></p> <p>Insect classification; Insects in food production; Integrated pest management; Insect field collection</p>	<p><b><i>Human Body &amp; Wellness:</i></b></p> <p>Nutrition and the food pyramid; A balanced diet; Diet and exercise; Basic needs of living things; Substances that damage the body; Recreational safety</p>
2 <sup>nd</sup> Grade	<p><b><i>Food, Natural Resources &amp; Environment- A Global View:</i></b></p> <p>A world perspective; USA perspective; Florida &amp; local perspective</p>	<p><b><i>Injury/Disease Process &amp; Prevention:</i></b></p> <p>The body's defense mechanisms; Fighting diseases- prevention and care; Bodily injuries; Prevention and cure; Nutrients and you; Preventing abuse and neglect; Posture and body mechanics; Beginning first aide</p>
3 <sup>rd</sup> Grade	<p><b><i>Animal Care &amp; Health Management:</i></b></p> <p>Companion; Farm and Exotic animals; Animal ethics (rights vs. welfare)</p>	<p><b><i>Health Occupations:</i></b></p> <p>Nursing; Doctor; Paramedics; Dentistry; Medical Assistant; Physical Therapist; Radiology; Pharmacy</p>
4 <sup>th</sup> Grade	<p><b><i>Role of Computers in Food Production:</i></b></p> <p>Electronic record keeping; Precision farming; Marketing; Advertising and communications; Business simulation</p>	<p><b><i>Body Framework, Biology &amp; Anatomy:</i></b></p> <p>Single vs multi-cellular organisms; Cell function; Cell tissues; Organs; Skeletal systems; Muscular systems; Respiratory systems; Skin (Integumentary system); Nervous system; Digestive system</p>
5 <sup>th</sup> Grade	<p><b><i>Exploring the Science of Food Production:</i></b></p> <p>Aquaculture; Plant tissue culture; Hydroponics, Scientific research and investigations</p>	<p><b><i>Information &amp; Medicine:</i></b></p> <p>First aide; Substance abuse and the effects on the body; Human growth and development: Your changing body; Inherited vs. non- inherited characteristics; Physical fitness and an active lifestyle</p>

## 6<sup>th</sup>-8<sup>th</sup> Grade Level Topics

Our upper academy students are given the option to choose a specialized focus in either Agriscience Engineering or Medical Biotechnology. They are then assigned a theme that they focus on during their magnet class. The themes are as follows:

Grade	Theme
6 <sup>th</sup> Grade	In 6 <sup>th</sup> grade, students take a giant leap by selecting a single strand to study. They will utilize their Lower Academy knowledge to begin building on their magnet portfolio in preparation for high school academics and Magnet programs.
7 <sup>th</sup> Grade	In 7 <sup>th</sup> grade, students broaden their knowledge of their chosen strand through career exploration, hands-on research, and various projects designed to demonstrate their ever-growing comprehension of career-based skills needed in the Medical and Agriculture field.
8 <sup>th</sup> Grade	In 8 <sup>th</sup> grade, students experience rigorous and expansive programs such as community service projects, field trips, participation in competitions, and their creation of a final portfolio designed to showcase eight years of extensive study in their selected strand. Students also assist in mentoring and administering instruction to students in the lower academy magnet program.

For more information on the specific standards covered in the Agricultural and Medical Technology classes please visit Florida Department of Education.

	
Middle School Health Science Framework	Middle School Agriculture Food & Natural Resource Framework

**Coconut Palm K-8 Academy is a GREAT place to be!**